



CARB 94  
DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 27th FIGHTER WING (ACC)  
CANNON AIR FORCE BASE, NEW MEXICO

13.7 JUL 1996

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New Mexico Environment Department  
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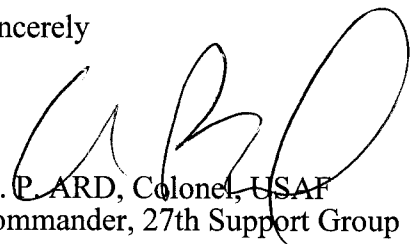


Dear Mr. Garcia

The Final Construction Work Plan Appendix II and III Solid Waste Management Units is attached for your review and approval. Incorporated into the work plan are the required changes specified in the 22 Mar 96 New Mexico Environment Department Notice of Deficiency (NOD). Interim RCRA Corrective Actions for 19 oil-water separator sites previously investigated in the Phase I Appendix II and Phase I Appendix III RCRA Facility Investigations will be performed utilizing this work plan.

If you have any questions, please contact Mr. John S. Pike, of my environmental flight, at (505) 784-4348.

Sincerely

  
W. P. ARD, Colonel, USAF  
Commander, 27th Support Group

Attachments:

1. Final Work Plan Appendix II and III Solid Waste Management Units Storage
2. Plans and Drawings for Appendix II and III Work Plan

cc:

EPA Region VI (Mr. Bob Sturdivant)  
HQ ACC CE/ESVW (M. Calvert) w/o Attachments

FINAL FIELD SAMPLING PLAN

**LIBRARY COPY**



RCRA FACILITY  
INVESTIGATIONS  
APPENDIX II  
SWMUs - PHASE II

CANNON AIR  
FORCE BASE,  
NEW MEXICO



Prepared for  
U.S. Department of the Army  
Corps of Engineers, Omaha District  
Omaha, Nebraska

November 1994

**FINAL FIELD SAMPLING PLAN  
PHASE II RFI FOR APPENDIX II SWMUs**

1. USE THE DRAFT APPENDIX II AND III FIELD SAMPLING PLAN
2. REPLACE THE COVER AND SPLINE WITH THE ONES ENCLOSED
3. REPLACE THE TABLE OF CONTENTS, SECTIONS 1.0 - 5.0
4. ALL OTHER SECTIONS STAY THE SAME
5. A SEPARATE APPENDIX III FIELD SAMPLING PLAN HAS BEEN PROVIDED

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**1.0**  
**INTRODUCTION**

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**1.1 PURPOSE AND SCOPE**

This Phase II RCRA Facility Investigation (RFI) Field Sampling Plan (FSP) describes the field sampling requirements for the RFI to be completed for the Appendix II Solid Waste Management Units (SWMUs) at Cannon Air Force Base (Cannon AFB) near Clovis, New Mexico. This FSP follows United States Environmental Protection Agency (USEPA) guidance for conducting facility investigations under the Resource Conservation and Recovery Act (RCRA) (USEPA 1989).

This FSP is designed to provide specific information on the field activities associated with the investigations of potential hazardous waste releases from the Appendix II SWMUs at Cannon AFB. The FSP presents the information required for completing the RFI in a manner consistent with specific quality goals of precision, accuracy, representativeness, completeness, and comparability in pursuit of data quality objectives established for the project in the Work Plan. Implementation of and compliance with the FSP procedures for completing the field investigation are required for the acquisition of high quality data for determining the nature and extent of potential contamination and for use in a possible future baseline risk assessment (BRA).

This FSP is based on the data requirements established in the RFI Work Plan for this project. The data requirements in the work plan conform with the May 25, 1994, Scope of Services (SOS) provided by the U.S. Army Corps of Engineers (USACE), Omaha District. The individual SWMU sites in the Appendix II group to be investigated are listed in Table 1-1. The work includes preparing planning documents, doing a field investigation (soil borings and soil and subsurface water sampling), analyzing the field samples for chemicals, evaluating the chemical data, and preparing the final RFI report.



## **1.2 REGULATORY FRAME WORK**

This FSP is written to satisfy the requirements for completing the RFI as specified in the USACE SOS and following guidance set forth in "RCRA Facility Investigations (RFI) Guidance" (EPA 530/SW-89-031). Cannon AFB is being asked to investigate and clean up, as necessary, all suspected past hazardous waste sites under the provisions of RCRA Section 3004(u), as a condition of their RCRA Part B Permit for Cannon AFB's hazardous waste material operations.

## **1.3 OTHER DOCUMENTS**

This FSP is an integral part of a set of plans prepared to document investigation activities at Cannon AFB. The other plans associated with the FSP include the Community Relations Plan (CRP), Quality Assurance Project Plan (QAPP), Site Safety and Health Plan (SSHP), and the Work Plan (WP) (which includes the Data Management Plan [DMP] and the Program Management Plan [PMP]). The FSP and QAPP together are considered as the Sampling and Analysis Plan (SAP) for completing the investigations at Cannon AFB.

**TABLE 1-1**

**APPENDIX II SWMUs ADDRESSED IN THIS PHASE II RFI**

Site Number	SWMU Number	Site Description	Appendix
108	3	Oil/Water Separator	II
121	5	Oil/Water Separator	II
680	16	Oil/Water Separator	II
NA	48A	Underground Storage Tank	II
NA	48B	Aboveground Storage Tank Sump	II
120	83	Oil/Water Separator	II
NA	108	EOD Training Area	II

## SOLID WASTE MANAGEMENT UNITS (SWMUs)

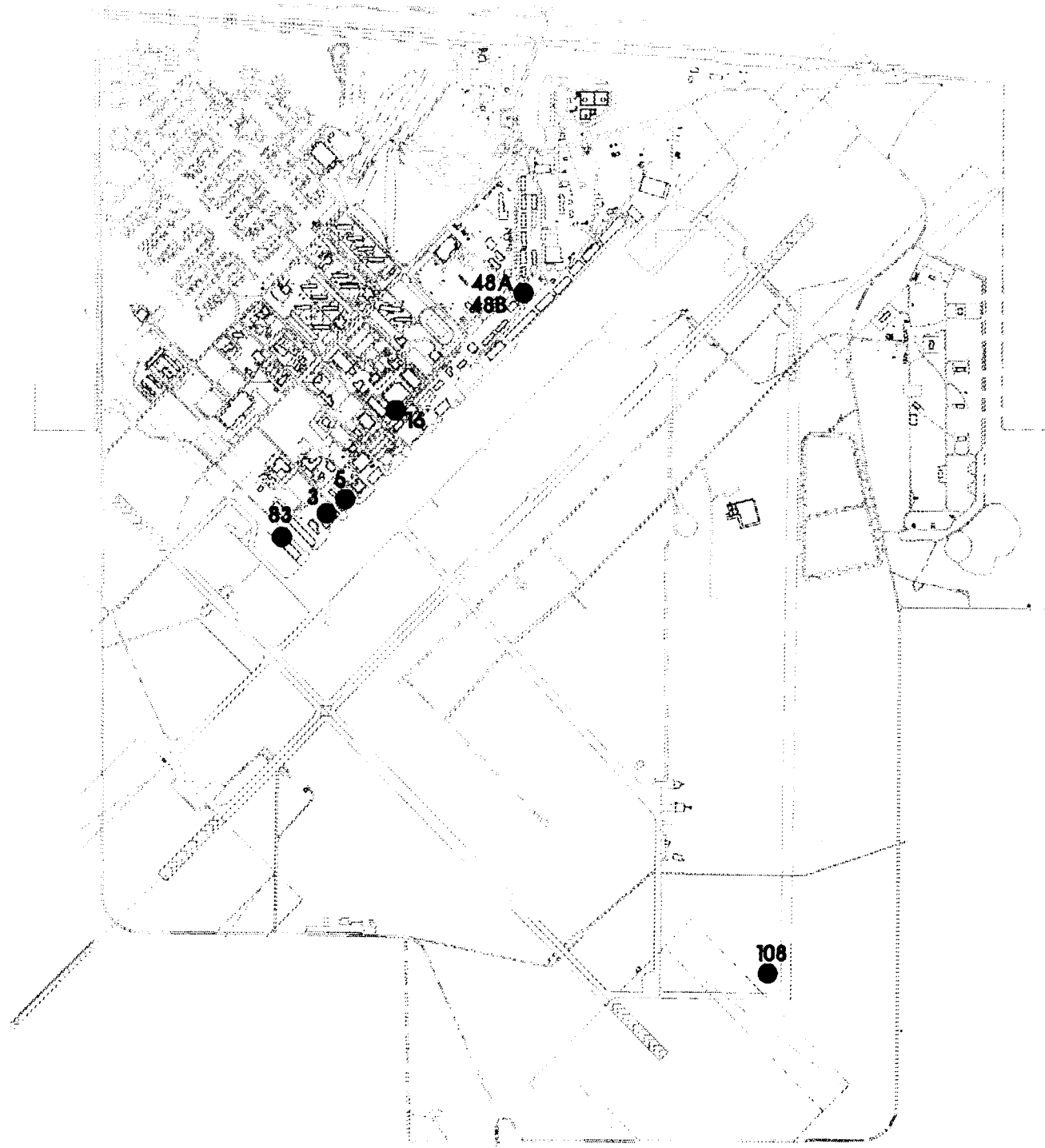
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The following sections provide a description of each of the SWMUs being investigated during this RFI at Cannon AFB. A site map of Cannon AFB showing the locations of the SWMU sites is presented on Figure 2-1. This section describes each SWMU and briefly discusses potential contaminants which may be present at each site, the existing situation at each SWMU, sampling objectives, and proposed sample locations and frequencies. The soil boring locations will be finalized on the basis of utility clearances and drill rig access and will be agreed upon by Cannon AFB and USACE personnel before drilling commences. Soil sampling will be completed as specified in Standard Operating Procedure (SOP) Nos. 7 and 8 using a truck-mounted drilling rig equipped with hollow-stem augers and split-spoon samplers (stainless steel). The SOPs are contained in Appendix A of this document.

Oil/water separators and grease traps scheduled for removal or removal and replacement will be inspected under the Oil/Water Separator Management Plan. The Oil/Water Separator Management Plan is being developed by the Cannon Air Force Base Environmental Compliance Section. The management plan will be submitted 90 days from the approval date by the EPA of the Phase II, Appendix II Work Plan. The point of contact for this management plan is the Compliance Section (27CES/CEVC).

### 2.1 OIL/WATER SEPARATOR NO. 119 (SWMU NO. 1)

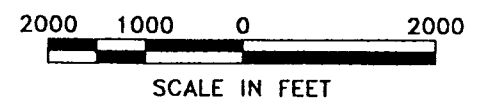
SWMU No. 1 will be inspected under the Oil/Water Separator Management Plan. Oil/Water Separator No. 119 will be removed under a separate project and will be replaced. This project will include excavating any contaminated soil, analysis of soil samples to determine treatment or disposal requirements, and reporting of the analytical test results. The soil samples will be analyzed for volatile organic compounds (VOCs) by EPA Method 8240, semivolatile organic compounds (SVOCs) by EPA Method 8270, total target analyte list (TAL) metals by EPA Methods 6010 and 7000, and total recoverable petroleum hydrocarbons (TRPH) by EPA Method 9071/418.1.



**LEGEND**

**3** ● SOILD WASTE MANAGEMENT UNIT (SWMU) LOCATION AND NUMBER

- | SWMU NO. | DESIGNATED AREA                                 |
|----------|---|
| 3        | OIL/WATER SEPARATOR No. 108                     |
| 5        | OIL/WATER SEPARATOR No. 121                     |
| 16       | OIL/WATER SEPARATOR No. 680                     |
| 48A      | UNDERGROUND STORAGE TANK                        |
| 48B      | ABOVEGROUND STORAGE TANK                        |
| 83       | SUMP  |
| 108      | EXPLOSIVE ORDNANCE DISPOSAL (EOD) TRAINING AREA |



DRN. BY: C/JG	DATE: 08/16/93	SITE PLAN AND LOCATION OF INVESTIGATED SWMU SITES CANNON AIR FORCE BASE NEW MEXICO	PROJECT NO. C3M11MM	FIG. NO. 1
CHK'D. BY:	REVISION: 0			